

## AIRPLANE QUESTIONNAIRE

Name: \_\_\_\_\_ Grade: \_\_\_\_\_ CAPID: \_\_\_\_\_  
Unit: \_\_\_\_\_ Date: 26JAN2006  
Check Pilot: OHWG/DO Grade: \_\_\_\_\_ CAPID: \_\_\_\_\_  
Score: \_\_\_\_\_ Type/Model Aircraft: N99783 C172P Avcon STC SA2800CE

Complete this open book questionnaire using the *Flight Manual/Pilot's Operating Handbook*. If a question or part of a question is not applicable, write in NA. The check pilot will review and grade the questionnaire. Minimum passing score is 80%. The completed questionnaire will be filed in the pilot's flight records.

1. Approved fuel grades and colors are: 100LL (Blue)
2. Location/capacity of each fuel tank is: Wings, 43 gal total, 21.5 gal/side
3. Total usable fuel under all flight conditions is 40 gallons.
4. Endurance at 75% power, 7,500-foot MSL, with a 45-minute reserve is 3.26 hours.
5. What make and grade oil is used? Winter: Exxon Elite 20W50 Summer: Exxon Elite 20W50
6. Oil capacity is 8 quarts. Minimum oil quantity for take off is 6 quarts.
7. Minimum oil pressure is 20 psi. Maximum oil pressure is 100.
8. Maximum oil temperature is 245 degrees (F or C) F.
9. Magnetos are checked at 1700 RPM. RPM drop should not exceed 125 RPM on either magneto or 50 RPM differential between magnetos.
10. Maximum RPM and MP for takeoff are 2700 and N/A in/Hg.
11. Maximum gross takeoff weight is 2550 pounds. Empty weight is 1550.0 pounds.  
Useful load is 1000.0 pounds. Maximum landing weight is 2550 pounds.
12. Baggage compartment locations/weights are: Front: 120lb, Rear: 50 lb, Front & Rear 120 lb max
13. Give the IAS at maximum gross weight for:

- |  |  |
|--|--|
| a. Va (maneuvering speed). <u>105 kias</u>                 | e. Vx (best angle of climb, sea level). <u>62 kias</u>         |
| b. Vso (stall, landing config, power. off). <u>40 kias</u> | f. Vmc (minimum control speed – multi-engine only). <u>N/A</u> |
| c. Vsl (stall, cruise config, power. off). <u>50 kias</u>  |  |
| d. Vy (best rate of climb, sea level). <u>73 kias</u>      | g. Best glide speed. <u>68 kias</u>                            |

14. Give the immediate action/memory items for:

- a. Engine failure immediately after takeoff.

70 kias, Mixture IDLE CUTOFF, Fuel OFF, Ignition Switch OFF, Flaps AS REQUIRED, Master Switch OFF

- b. Fire during cranking and engine fails to start.

Continue cranking, Throttle FULL OPEN, Mixture, IDLE CUTOFF, Obtain Fire Extinguisher, Master/Ignition/Fuel OFF

- c. Engine fire in flight.

Mixture IDLE CUTOFF, Fuel OFF, Master Switch OFF, Cabin Heat & Air OFF, Airspeed 100 KIAS increase as required to extinguish flames, Forced Landing with engine out

- d. Electrical fire in flight.

Master Switch OFF, Ignition Switch ON, Avionics Power Switch OFF, All other switches except ignition OFF, Fire Extinguisher ACTIVATE, Land ASAP

**Continue on Reverse**

**Airplane Questionnaire (Continued)**

15. Normal takeoff flap setting is 0 deg , short field takeoff setting is 10 deg , and soft field takeoff flap setting is 10 deg .

16. Maximum demonstrated takeoff/landing crosswind component is 15 knots.

17. Given: PA = 4,000 feet; Temp = 86° F; Runway 27; Wind 320° at 14 knots; runway is paved, level, and dry; aircraft is at maximum takeoff weight.

Find: Total takeoff distance to clear a 50-foot obstacle: 2547 feet

18. Given: PA = 6,000 feet; Temp = 68° F; wind calm; runway is paved, level, and dry; aircraft is at maximum landing weight.

Find: Total landing distance to clear a 50-foot obstacle: 1580

19. Landing runway 22; wind 190° at 22 gusting to 30 knots. Will the maximum demonstrated crosswind component for this aircraft be exceeded? NO